

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/092850 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 207/16**, A61K 31/40, C07K 5/06, 5/08, A61K 7/06

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/EP2005/003116

(22) International Filing Date: 23 March 2005 (23.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04007282.9 26 March 2004 (26.03.2004) EP

(71) Applicant (for all designated States except US): **DSM IP ASSETS B.V.** [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KLOCK, Jochen** [DE/DE]; Richard-Strauss-Strasse 8, 79104 Freiburg (DE). **MAILLAN, Philippe Emmanuel** [FR/FR]; 5 rue du Vignoble, F-68440 Eschentzwiller (FR). **VOLLHARDT, Juergen H.** [DE/CH]; Brunnackerstrasse 4, CH-4433 Ramlinsburg (CH). **BEUMER, Raphael** [DE/DE]; Neudorfer Str. 10, 79541 Loerrach (DE).

(74) Agents: **BEST, Michael** et al.; Lederer & Keller, Prinzregentenstr. 16, 80538 München (DE).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

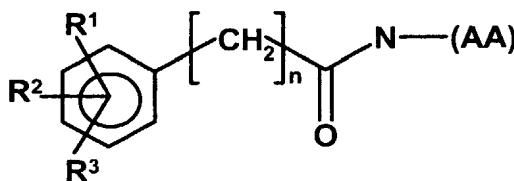
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A1

(54) Title: AMINO ACID AND PEPTIDE CONJUGATES OF ARYLALKYLIC ACIDS FOR COSMETIC USE

WO 2005/092850

(1)



(57) **Abstract:** The invention provides novel compounds of general formula (I), wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are independently hydrogen, OR<sup>4</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>2</sub>-C<sub>6</sub> alkenyl, R<sup>4</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>2</sub>-C<sub>6</sub> alkenyl, -N-(AA) represents the residue of an amino acid or of a peptide which is bonded over the N-terminus of the amino acid or the peptide and the peptide is composed of 2 to 6, that means 2, 3, 4, 5 or 6, amino acids, wherein the C-terminus of the amino acid or the peptide is optionally esterified with a C<sub>1</sub>-C<sub>16</sub> hydrocarbon moiety and n is an integer of 1 to 5. The compounds are in particular useful for cosmetic applications.